

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/614,638	07/07/2003	Keshav D. Sharma	LEAP:122US 7664	
24041	7590 06/30/2004		EXAMINER	
SIMPSON & 5555 MAIN S	SIMPSON, PLLC		LESTER, E	VELYN A
WILLIAMSVILLE, NY 14221-5406			ART UNIT	PAPER NUMBER
	•		2873	
			DATE MAILED: 06/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/614,638	SHARMA, KESHAV D.				
Office Action Summary	Examiner	Art Unit				
	Evelyn A. Lester	2873				
Th MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days a reply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
2a) This action is FINAL . 2b) ⊠ This	, <u></u>					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) <u>1-28</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed.	vn from consideration.					
6)⊠ Claim(s) <u>1-28</u> is/are rejected.						
7) Claim(s) is/are objected to.		!				
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>07 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority	s have been received. s have been received in Application ity documents have been receive	on No				
application from the International Bureau * See the attached detailed Office action for a list.	, , , ,	d				
* See the attached detailed Office action for a list of	or the certified copies not receive	a.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	` '				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>10-29-03</u>. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

Application/Control Number: 10/614,638

Art Unit: 2873

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-28 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Suenaga et al (U.S. patent 5,532,878).

Suenaga et al disclose the claimed invention of an optical arrangement having from the object side to the image side, a first lens element (L34,L33) having at least one first lens, the first lens element having a positive power, and wherein the radius of curvature of the surface of the first lens element proximate to an object plane is less

Application/Control Number: 10/614,638

Art Unit: 2873

than or about equal to the radius of curvature of the surface of the first lens element distal to the object plane (note Table 1 in col. 5-6 and Figure 1, for example), a second lens element having at least one second lens and where the second lens element has a negative power(L32), a third lens element having at least one lens(L31) and where the third lens element has a positive power, a fourth lens element having at least one lens and the fourth lens element has a negative power(L25), a fifth lens element having at least one lens and the fifth lens element has a positive power(L24), a sixth lens having at least one lens and the sixth lens element has a positive power(L22), a seventh lens element having at least one lens and the seventh lens element having a positive power(L15), as well as wherein the radius of curvature of the surface of the seventh lens element proximate to the object plane is less than or about equal to the radius of the curvature of the surface of the seventh lens element distal to the object plane, and an eighth lens having at least one lens and the eighth lens element has a positive power(L12,L11), wherein the distance from the first lens element to the second lens element is sufficient to reduce a ray height of a light ray entering the second lens element from the ray height of the light ray entering the first lens element, and wherein the distance from the fifth lens element to the sixth lens element is sufficient to increase the ray height of the light ray entering the sixth lens element from the ray height of the light ray entering the first lens element. Please note for example Figure 1 and its accompanying text.

With respect to claims 2, 13 and 24, the ray height reduction is less than 40%, as noted in Figure 1 for example.

Application/Control Number: 10/614,638

Art Unit: 2873

With respect to claims 3, 14 and 25, the ray height increase is less than 200%, as noted in Figure 1 for example.

With respect to claims 4, 5, 7, 8, 15, 16, 18, 19 and 26, note Table 1, at col. 5-6.

With respect to claims 6, 9, 10, 17, 20, 21 and 27, please note Figure 1 for example.

With respect to claims 11, 22 and 28, note col.1, lines 50-54.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following are U.S. Patents and U.S. Patent Publications directed to microscope objective having eight lens elements:

Suzuki (5502596)

Suzuki (5517360)

Saito (5530590)

Suzuki (5659425)

Abe (5739958)

Ryzhikov (5898524)

Kasahara (6501603 B2)

Yamaguchi (6519092 B2)

Fujimoto et al (6747804 B2)

Okuyama (2003/0043473 A1)

Art Unit: 2873

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Evelyn A. Lester whose telephone number is (571) 272-2332. The examiner can normally be reached on M- F, from about 10 am to 7 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 2873